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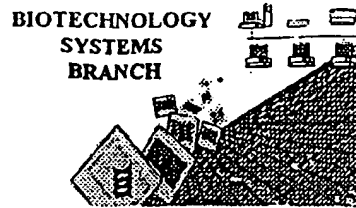
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Application Serial Number: 10/669,162

Source: IFWO

Date Processed by STIC: 2/27/04

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Revised 10/08/03



IFWO

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/669,162

DATE: 02/24/2004

TIME: 14:54:25

Input Set : A:\210387_2.doc

Output Set: N:\CRF4\02242004\J669162.raw

3 <110> APPLICANT: Breaker, Ronald R.
 4 Nahvi, Ali
 5 Sudarsan, Narasimhan
 6 Ebert, Margaret S.
 7 Winkler, Wade
 8 Barrick, Jeffrey E.
 9 Wickiser, John K.
 12 <120> TITLE OF INVENTION: RIBOSWITCHES, METHODS FOR THEIR USE, AND
 13 COMPOSITIONS FOR USE WITH RIBOSWITCHES
 15 <130> FILE REFERENCE: 25006.0016U2
 17 <140> CURRENT APPLICATION NUMBER: 10/669,162
 18 <141> CURRENT FILING DATE: 2003-09-22
 20 <150> PRIOR APPLICATION NUMBER: 60/412,468
 21 <151> PRIOR FILING DATE: 2002-09-20
 23 <160> NUMBER OF SEQ ID NOS: 377
 25 <170> SOFTWARE: FastSEQ for Windows Version 4.0

Does Not Comply
 Corrected Diskette Needed
 (pg. 1-6)

ERRORED SEQUENCES

1918 <210> SEQ ID NO: 112
 1919 <211> LENGTH: 486
 1920 <212> TYPE: RNA
 1921 <213> ORGANISM: Bacillus subtilis
 1923 <220> FEATURE:
 1924 <221> NAME/KEY: misc_feature
 1925 <222> LOCATION: (21)...(307)
 1926 <223> OTHER INFORMATION: n = g, a, c or t/u
 1928 <400> SEQUENCE: 112
 --> 1929 agcaaccgga ggaagag nnaagcaga gggannccg nnncccgac gaagcnnnc 60
 --> 1930 agcaaccgga ggaagag nnnnnnnnnn nnnnnnnnnn nngatcann nnnnnnnnnn 120
 --> 1931 nnnnnnnnnn nnnngccat gaccaagggg gtaaatcca gnnnnnncaa gctnnnnnnn 180
 --> 1932 nnnncgaaca nnnnnnnnnn ngctgggaag ataagaagag acaaaatcac tgaacaannn 240
 --> 1933 nnnnnnnnnn nnnnnnnnnn nnnnnnnnct gttctnnnnn nnnnnnnnnn gttnnnnnnn 300
 --> 1934 nnnnnnaag aggaattttt tttttttttt ttttccttc tttttgaat aaaggaggca 360
 --> 1935 gacaattgga dttttagaag atttgcaaag acaggttta atggctgacg ggcctatggg 420
 --> 1936 gacgttttc tttttttttt gcatggacag gttttttgag gagcttaata ttccaagcc 480
 1937 ggagga 486
 1939 <210> SEQ ID NO: 113
 1940 <211> LENGTH: 486
 1941 <212> TYPE: RNA
 1942 <213> ORGANISM: Bacillus subtilis
 1944 <220> FEATURE:

NO "Es" are allowed
 in a RNA
 sequence.

For a combined
 DNA/RNA sequence
 please use a <212>
 response of "DNA" and
 explain in
 <2207-2237
 section.

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/669,162

DATE: 02/24/2004

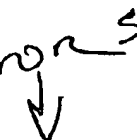
TIME: 14:54:25

Input Set : A:\210387_2.doc

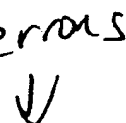
Output Set: N:\CRF4\02242004\J669162.raw

1945 <221> NAME/KEY: misc_feature
 1946 <222> LOCATION: (21)...(305)
 1947 <223> OTHER INFORMATION: n = g, a, c or t/u
 1949 <400> SEQUENCE: 113

E--> 1950 tcgatatttc ttatcgtgag nnnaggtgga gggannctgg nnnnccctta gaaacctnnc 60
 E--> 1951 agcaaccggc ttgttttgc nnnnnnnnnn nnnnnnnnnn nnnatttnnn nnnnnnnnnn 120
 E--> 1952 nnnnnnnnnn nnnngcaaaag cgccaagggtg ctaaatncca gnnnnnncaa gcgtnnnnnn 180
 E--> 1953 nnnntttttt nnnnnnnnna tgcttgaag ataagaagaa gcgttaaann nnnnnnnnnn 240
 E--> 1954 nnnnnnnnnn nnnnnnnnnn nnnnnnnncc ccttcttcnn nnnnnnnnt tatnnnnnnn 300
 E--> 1955 nnnnngaaga aggggttttt attttgaaaa gggaagggtg cagctatatg tcacagcacg 360
 E--> 1956 ttgaaacgaa attagctcaa attgggaacc gtagcgatga agtcacggga acagtgagtg 420
 E--> 1957 ctcctatcta tttatcaaca gcataccgcc acagagggat cggagaatct accggatttg 480
 E--> 1958 attatg 486

same errors


1960 <210> SEQ ID NO: 114
 1961 <211> LENGTH: 486
 1962 <212> TYPE: RNA
 1963 <213> ORGANISM: Bacillus subtilis
 1965 <220> FEATURE:
 1966 <221> NAME/KEY: misc_feature
 1967 <222> LOCATION: (21)...(304)
 1968 <223> OTHER INFORMATION: n = g, a, c or t/u
 1970 <400> SEQUENCE: 114

same errors


E--> 1971 acattttctc ttatcgagag nnttgggcca gggannttgg nnnncccttt gaccccaanc 60
 E--> 1972 agcaaccgac cnnnnngta ataccattgt gaaatggggc gcaotgcttt tcgcgcgag 120
 E--> 1973 actgatgtct cataannnnn nggcacgggtg ctaattncca tnnnnnnnca atnnnnnnnn 180
 E--> 1974 nnnntgttnn nnnnnnnnnn ngctctgagag atgagagagg cagtgtttta cgtagaaaaa 240
 E--> 1975 nnnnnnnnnn nnnnnnnnnn nnnnnnnngc ctctttctcn nnnnnnnnt catnnnnnnn 300
 E--> 1976 nnnngggaaa gaggtttttt gttgtgagaa aacctcttag cagcctgtat ccgcgggtga 360
 E--> 1977 aagagagtgt ttacatata aaggaggaga aacaatgaca accatcaaaa catcgaattt 420
 E--> 1978 aggatttcog agaatcgacc tgaaccggga atggaaaaaa gcacttgaag cgtattggaa 480
 1979 aggcag 486

The type of errors shown exist throughout the Sequence Listing. Please check subsequent sequences for similar errors.

VERIFICATION SUMMARY

DATE: 02/24/2004

PATENT APPLICATION: US/10/669,162

TIME: 14:54:26

Input Set : A:\210387_2.doc

Output Set: N:\CRF4\02242004\J669162.raw

L:72 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:120
M:341 Repeated in SeqNo=3
L:111 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0
M:341 Repeated in SeqNo=5
L:147 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0
M:341 Repeated in SeqNo=6
L:181 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0
L:218 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0
M:341 Repeated in SeqNo=8
L:252 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:0
M:341 Repeated in SeqNo=9
L:280 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:0
M:341 Repeated in SeqNo=10
L:308 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0
M:341 Repeated in SeqNo=11
L:352 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:0
M:341 Repeated in SeqNo=12
L:387 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:0
M:341 Repeated in SeqNo=15
L:402 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:0
M:341 Repeated in SeqNo=16
L:417 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:0
M:341 Repeated in SeqNo=17
L:447 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:0
M:341 Repeated in SeqNo=18
L:461 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:0
L:475 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:0
L:489 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:0
M:341 Repeated in SeqNo=21
L:504 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:0
M:341 Repeated in SeqNo=22
L:520 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:0
M:341 Repeated in SeqNo=23
L:536 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24 after pos.:0
M:341 Repeated in SeqNo=24
L:551 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25 after pos.:0
M:341 Repeated in SeqNo=25
L:566 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:0
M:341 Repeated in SeqNo=26
L:581 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:0
M:341 Repeated in SeqNo=27
L:597 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28 after pos.:0
M:341 Repeated in SeqNo=28
L:612 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29 after pos.:0
M:341 Repeated in SeqNo=29
L:628 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30 after pos.:0
M:341 Repeated in SeqNo=30
L:644 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31 after pos.:0

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M:341 Repeated in SeqNo=31

L:660 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32 after pos.:0

L:1718 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:98

L:1929 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:10

L:1930 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:4

L:1930 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:14

L:1931 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:5

L:1931 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:19

L:1932 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:5

L:1932 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:24

L:1933 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:7

L:1933 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:31

L:1934 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:22

L:1934 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:53

L:1935 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:14

L:1935 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:67

L:1936 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:18

L:1936 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:85

L:1950 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:14

L:1951 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:9

L:1951 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:23

L:1952 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:4

L:1952 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:27

L:1953 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:11

L:1953 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:38

L:1954 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:7

L:1954 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:45

L:1955 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:15

L:1955 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:60

L:1956 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:12

L:1956 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:72

L:1957 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:15

L:1957 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:87

L:1958 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:3

L:1958 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:90

L:1971 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:16

L:1972 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:11

L:1972 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:27

L:1973 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:11

L:1973 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:38

L:1974 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:11

L:1974 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:49

L:1975 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:7

L:1975 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:56

L:1976 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:15

L:1976 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:71

L:1977 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:13

L:1977 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:84

L:1978 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:11

VERIFICATION SUMMARY

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Input Set : A:\210387_2.doc

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L:1978 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:95
L:1992 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:17
L:1993 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:14
L:1993 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:31
L:1994 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:12
L:1994 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:43
L:1995 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:8
L:1995 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:51
L:1996 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:6
L:1996 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:57
L:1997 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:19
L:1997 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:76
L:1998 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:13
L:1998 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:89
L:1999 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:12
L:1999 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:101
L:2013 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:10
L:2014 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:3
L:2014 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:13
L:2015 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:7
L:2015 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:20
L:2016 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:4
L:2016 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:24
L:2017 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:6
L:2017 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:30
L:2018 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:17
L:2018 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:47
L:2019 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:9
L:2019 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:56
L:2020 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:12
L:2020 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:68
L:2021 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:2021 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:69
L:2034 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:9
L:2035 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:4
L:2035 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:13
L:2036 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:7
L:2036 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:20
L:2037 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:14
L:2037 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:34
L:2038 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:6
L:2038 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:40
L:2039 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:19
L:2039 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:59
L:2040 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:14
L:2040 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:73
L:2041 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:13
L:2041 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:86
L:2056 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:3

VERIFICATION SUMMARY

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TIME: 14:54:26

Input Set : A:\210387_2.doc

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L:2057 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:4
L:2058 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:10
L:2059 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:14
L:2060 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:17
L:2061 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:14

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L:2057 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:4
L:2058 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:10
L:2059 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:14
L:2060 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:17
L:2061 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:14